

AMENDMENTS TO THE CLAIMS:

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1.(currently amended): A synchronization protecting and setting system for signals received in a radio base station comprising:

a first means for generating a first synchronized word detecting window, which covers a position of a synchronized word provided in a reception signal received at the radio base station;

a second means for generating a second synchronized word detecting window, which covers the position of the synchronized word within the first synchronized word detecting window;

FE a means for detecting the synchronized word in the first or second synchronized word detecting window; and

a control means for resetting the position of the second synchronized word detecting window ~~as related~~ relative to the first synchronized word detecting window under a predetermined condition.

2.(previously amended): The system according to claim 1,

wherein when the synchronized word detecting means detects the synchronized word in the first synchronized word detecting window, the detecting means detects the synchronized word within the second synchronized word detecting window in the next frame.

3.(previously amended): The system according to claim 1,

wherein the synchronized word is formed of plural bits, and the control means resets the position of the second synchronized word detecting window, when a bit error rate of the synchronized word is more than a predetermined value, as the predetermined condition.

4.(previously amended): The system according to claim 1,

wherein the reception signal further includes a color code formed of plural bits, and the control means resets the position of the second synchronized word detecting window, when a bit error rate of the color code is more than a predetermined value, as the predetermined condition.

5.(previously amended): The system according to claim 1,

wherein the control means resets the position of the second synchronized word detecting window, when an average amount of phase difference in the number of frames of the signals received in the radio base station is more than a predetermined value, as the predetermined condition.

6.(previously amended): The system according to claim 1,

wherein the control means resets the position of the second synchronized word detecting window, when the result of BCH decoding for signals received in the radio base station is mistaken, as the predetermined condition.

7.(previously amended): The system according to claim 1,

wherein the control means resets the position of the second synchronized word detecting window, when the result of CRC arithmetic for signals received in the radio base station is mistaken as the predetermined condition.

8.(previously amended): The system according to claim 1,

wherein the control means resets the position of the second synchronized word detecting window, when a level of the signal received in the radio base station is less than a predetermined value, as the predetermined condition.

9.(previously amended): A synchronization protecting and setting method for signals received in a radio base station comprising the steps of:

generating a first synchronized word detecting window, which covers a position of a synchronized word provided in a reception signal received at the radio base station;

generating a second synchronized word detecting window, which covers the position of the synchronized word within the first synchronized word detecting window;

detecting the synchronized word in the first or second synchronized word detecting window; and

resetting the position of the second synchronized word detecting window as related to the first synchronized word detecting window under a predetermined condition.

10.(previously amended): A synchronization apparatus provided in a radio base station comprising:

a first window generator for generating a first synchronized word detecting window, which covers a position of a synchronized word provided in a reception signal received at the radio base station;

a synchronized word detector for detecting a synchronized word present in a received signal within the first synchronized word detecting window and outputting a synchronized word detecting pulse;

a second window generator for generating a second synchronized word detecting window, which covers the position of the synchronized word detected by the synchronized word detector as is within the same time period as the first synchronized word detecting window;

a pulse generator for outputting a detecting pulse according to an AND condition of the synchronized word detecting pulse and the second synchronized word detecting window; and

a register for resetting the position of the second synchronized word detecting window as related to the first synchronized word detecting window under a predetermined condition.

11.(currently amended): A synchronization protecting and setting method for received signals, comprising the steps of:

detecting a synchronized word in a first synchronized word detecting window at the frame;

~~detecting the synchronized word in a second synchronized word detecting window, which is narrower than the first synchronized word detecting window;~~

~~shifting position of the second synchronized word detecting window; and~~

~~detecting a next synchronized word in the shifted second synchronized word~~

detecting window

setting a position of a second synchronized word detecting window, based on the

detection of the synchronized word in the first synchronized word detecting window, the second

synchronized word detecting window being narrower than the first synchronized detecting

window; and

detecting the synchronized word in the set second synchronized word detecting

window at a subsequent frame.